

Classification of Igneous Rocks

		ACIDIC		INTERMEDIATE		BASIC	ULTRABASIC
GRAIN SIZE (diameter)	COARSE >5 mm	Granite	Granodiorite	Syenite	Diorite	Gabbro	Peridotite
	MEDIUM 1–5 mm	Microgranite	Microgranodiorite	Microsyenite	Microdiorite	Dolerite	
	FINE <1 mm	Rhyolite	Dacite	Trachyte	Andesite	Basalt	
	GLASSY	Obsidian				Tachylyte	
MAIN MINERALS (approximate %)		Quartz 30 Orthoclase 45 Plagioclase 15 Mica + Hornblende 10	Quartz 20 Orthoclase 20 Plagioclase 50 Biotite + Hornblende 10	Orthoclase 55 Plagioclase 25 Quartz 5 Hornblende + Biotite + Pyroxene 15	Plagioclase 70 Hornblende + Biotite + Pyroxene 30	Plagioclase 60 Pyroxene 40	Pyroxene 50 Olivine 50
OTHER PROPERTIES		<div>Decrease in Si, Na, K →</div> <div>Increase in Ca, Mg, Fe →</div> <div>Sodic plagioclase → Calcic plagioclase</div> <div>Colour becoming darker →</div> <div>2.6 g cm⁻³ → Increase in density → 3.3 g cm⁻³</div>					